

FIG. 1**NUCLEOTIDE SEQUENCE**

>Protease C-E (SEQ.ID.NO.:1)

CGTTCCGCCTCCCAGGATAAAACCTGGGGCGACCTGCAGGGGAACCTACACA
 CCCTGACCCGCATCGCCCTGGGTCTCTCGAGCCTGCTGCCTGCTCCCCCGC
 CCCACCAGCCATGGTGGTTTCTGGAGCGCCCCAGCCCTGGGTGGGGGCTG
 TCTCGGCACCTTCACCTCCCTGCTGCTGCTGGCGTCGACAGCCATCCTCAA
 TGCGGGCCAGGATACCTGTTCCCCCAGCCTGTGGGAAGCCCCAGCAGCTGAA
 CCGGGTTGTGGGCGGCGAGGACAGCACTGACAGCGAGTGGCCCTGGATCGT
 GAGCATCCAGAAGAATGGGACCCACCACTGCGCAGGTTCTCTGCTCACCAG
 CCGCTGGGTGATCACTGCTGCCCACTGTTTCAAGGACAACCTGAACAAACC
 ATACGTGTTCTCTGTGCTGCTGGGGGCCTGGCAGCTGGGGAACCCTGGCTC
 TCGGTCCCAGAAGGTGGGTGTTGCCTGGGTGGAGCCCCACCCTGTGTATTC
 CTGGAAGGAAGGTGCCTGTGCAGACATTGCCCTGGTGCCTCTCGAGCGCTC
 CATAAGTTCTCAGAGCGGGTCTGCCCCATCTGCCTACCTGATGCCTCTAT
 CCACCTCCCTCCAAACACCCACTGCTGGATCTCAGGCTGGGGGAGCATCCA
 AGATGGAGTTCCTTGCCCCACCCTCAGACCCTGCAGAAGCTGAAGGTTCC
 TATCATCGACTCGGAAGTCTGCAGCCATCTGTACTGGCGGGGAGCAGGACA
 GGGACCCATCACTGAGGACATGCTGTGTGCCGGCTACTTGGAGGGGGAGCG
 GGATGCTTGTCTGGGCGACTCCGGGGGGCCCCCTCATGTGCCAGGTGGACGG
 CGCTTGCTGCTGGCCGGCATCATCAGCTGGGGCGAGGGCTGTGCCGAGCG
 CAACAGGCCCCGGGGTCTACATCAGCCTCTCTGCGCACCGCTCCTGGGTGGA
 GAAGATCGTGCAAGGGGTGCAGCTCCGCGGGCGCGCTCAGGGGGGTGGGGC
 CCTCAGGGCACCGAGCCAGGGCTCTGGGGCCGCCGCGCGCTCCTAGGGCGC
 AGCGGGACGCGGGGCTCGGATCTGAAAGGCGGCCAGATCCAGATCTGGATC
 TGGATCTGCGGGCGGCCTCGGGCGGTTTCCCCCGCCGTAAATAGGCTCATCT
 ACCTCTACCTCTGGGGGGCCCCGACGGCTGCTGCGGAAAGGAAACCCCTCC
 CCGACCCGCCCCGACGGCCTCAGGCCCCCGCCTCCAAGGCATCAGGCCCCGCC
 CAACGGCCTCATGTCCCCGCCCCCACGACTTCCGGCCCCGCCCCGGGCC
 CAGCGCTTTTGTGTATATAAATGTTAATGATTTTATAGGTATTTGTAACC
 CTGCCCACATATCTTATTTATTCTCCAATTTCAATAAATTATTTATTCTCCA

AA SEQUENCE

>Protease C-E (SEQ.ID.NO.:7)

MVVS GAPPALGGGCLGTFTSLLLLASTAILNAARIPVPPACGKPQQLNRVV
 GGEDSTDSEWPWIVSIQKNGTHHCAGSLLTSRWVITAAHCFKDNLNKPYLF
 SVLLGAWQLGNPGSRSQKVGVAWVEPHPVYSWKEGACADIALVRLERSIQF
 SERVLPICLPDASIHLPPNTHCWISGWSIQDGVPLPHPQTLQKLKVPIID
 SEVCSHLYWRGAGQGPITEDMLCAGYLEGERDACLGDSGGPLMCQVDGAWL
 LAGIISWGECAERNRPGVYISLSAHRSWVEKIVQGVQLRGRAQGGGALRA
 PSQSGAAARS

FIG. 2

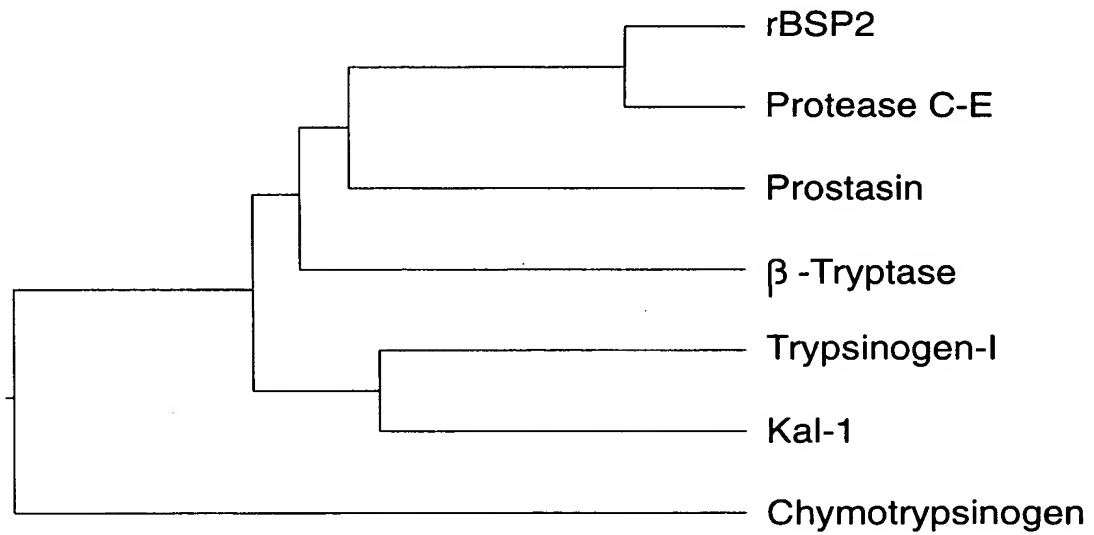


FIG. 3

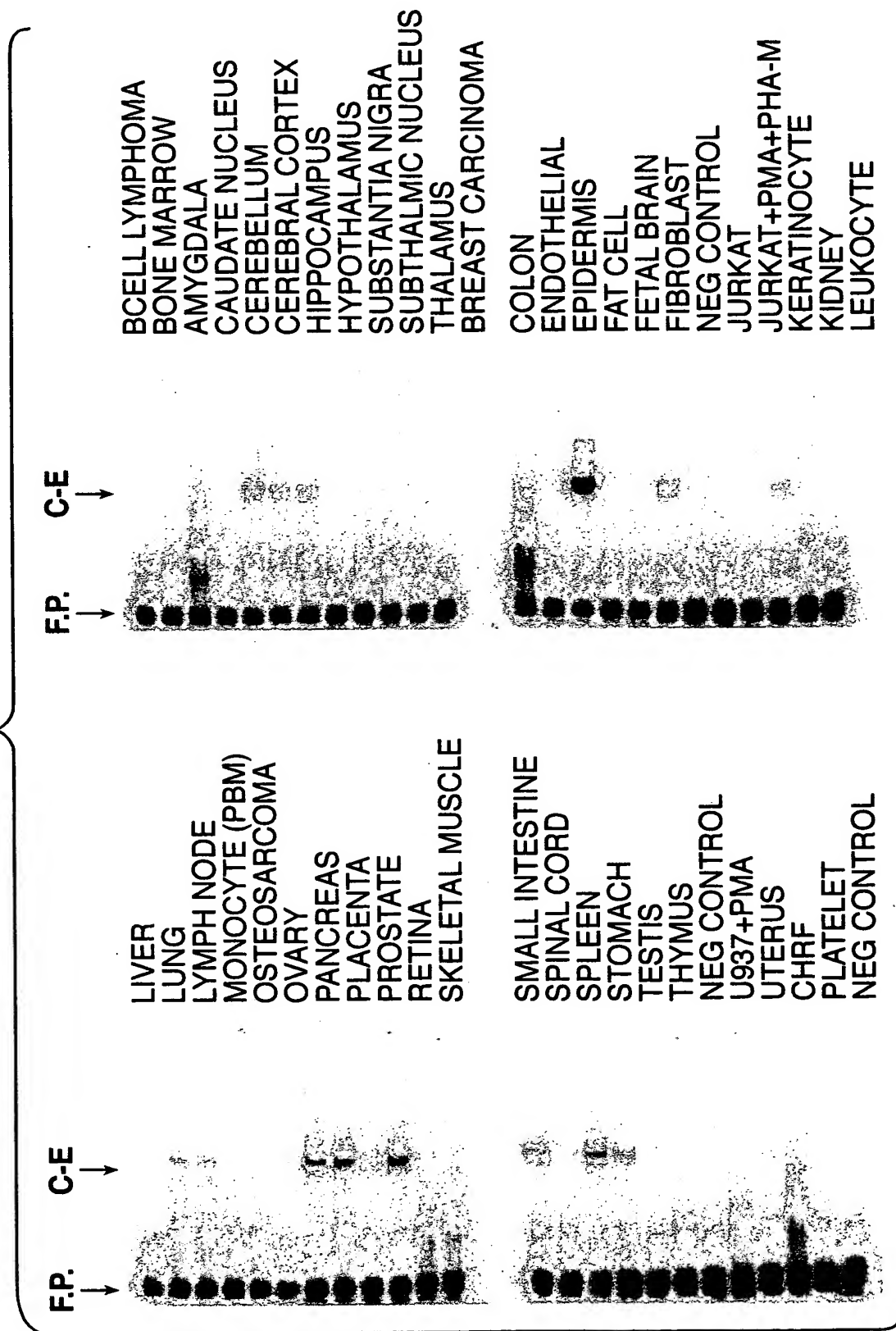


FIG. 4**CONSTRUCT NUCLEOTIDE SEQUENCE**

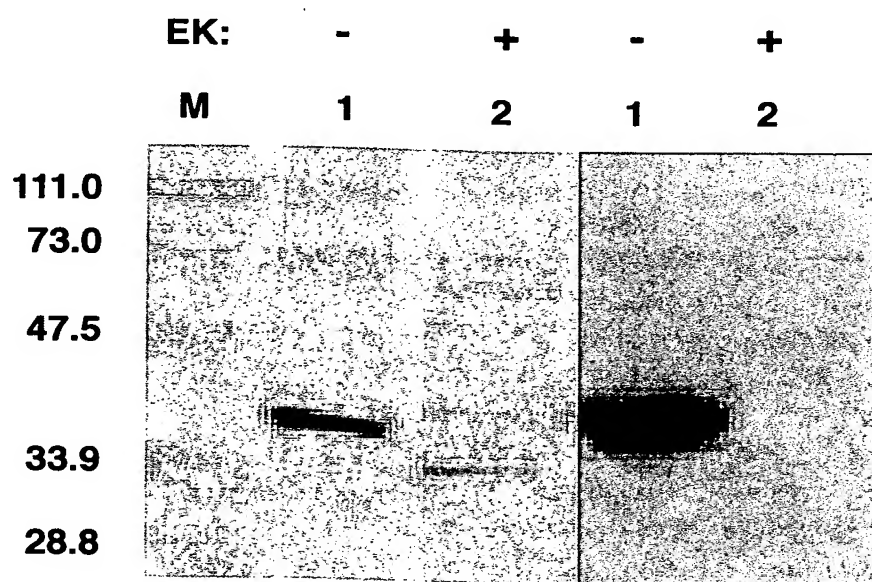
>PFEK2-C-E-HIS ERI-HCII (SEQ.ID.NO.:2)

GAATTCACCAACCATGGACAGCAAAGGTTTCGTCGCAGAAATCCCGCCTGCTC
 CTGCTGCTGGTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGTCTCCGAC
 TACAAGGACGACGACGACGTGGACGCGGCCGCTCTTGCTGCCCCCTTTGAT
 GATGATGACAAGATCGTTGGGGGCTATGCTCTAGAGGACAGCGAGTGGCCC
 TGGATCGTGAGCATCCAGAAGAATGGGACCCACCACTGCGCAGGTTCTCTG
 CTCACCAGCCGCTGGGTGATCACTGCTGCCCCACTGTTTCAAGGACAACCTG
 AACAAACCATAACCTGTTCTCTGTGCTGCTGGGGGCCTGGCAGCTGGGGAAC
 CCTGGCTCTCGGTCCCAGAAGGTGGGTGTTGCCTGGGTGGAGCCCCACCCT
 GTGTATTCCTGGAAGGAAGGTGCCTGTGCAGACATTGCCCTGGTGCGTCTC
 GAGCGCTCCATACAGTTCTCAGAGCGGGTCCTGCCCATCTGCCTACCTGAT
 GCCTCTATCCACCTCCCTCCAAACACCCACTGCTGGATCTCAGGCTGGGGG
 AGCATCCAAGATGGAGTTCCCTTGCCCCACCCTCAGACCCTGCAGAAGCTG
 AAGGTTCCCTATCATCGACTCGGAAGTCTGCAGCCATCTGTACTGGCGGGGA
 GCAGGACAGGGACCCATCACTGAGGACATGCTGTGTGCCGGCTACTTGGAG
 GGGGAGCGGGATGCTTGTCTGGGCGACTCCGGGGGCCCCCTCATGTGCCAG
 GTGGACGGCGCCTGGCTGCTGGCCGGCATCATCAGCTGGGGCGAGGGCTGT
 GCCGAGCGCAACAGGCCCGGGGTCTACATCAGCCTCTCTGCGCACCGCTCC
 TGGGTGGAGAAGATCGTGCAAGGGGTGCAGCTCCGCGGGGCGCGCTCAGGGG
 GGTGGGGGCCCTCAGGGCACCGAGCCAGGGCTCTGGGGCCGCCGCGCGCTCC
 TCTAGACATCACCATCACCATCACTAGCGGCCGCTTCCCTTTAGTGAGGGT
 TAATGCTTCGAGCAGACATGATAAGATAATTGATGAGTTTGGACAAACCA
 CAACTAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGTGATGCTA
 TTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTGAC

FUSION PROTEIN

>PFEK-C-E-HIS (SEQ.ID.NO.:8)

MDSKGSSQKSRLLLLLLVVSNLLLCQGVVSDYKDDDDVDAA¹ALAAPFDDDDK¹
 IVGGYAL¹EDSEWPWIVSIQKNGTHHCAGSLLTSRWVITA¹AHCFKDNLNKPY¹
 LFSVLLGAWQLGNPGSRSQKVGVAWVEPHPVYSWKEGACADIALVRLERSI¹
 QFSERVLPICLPDAS¹IHLPPNTHCWISGWGSIQDGVPLPHPQTLQKLKVPI¹
 IDSEVCSHLYWRGAGQGPIT¹EDMLCAGYLEGERDACLGDSGGPLMCQVDGA¹
 WLLAGIISWGE¹GCAERNRPGVYISLSAHR¹SWVEKIVQGVQLRGRAQGGGAL¹
 RAPSQGS¹GAAARSSRHHHHH

FIG. 5

Protease: PFEK-Protease C-E-HIS

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